



CIVIL QUALITY CONSULTANTS & ENGINEERS

ISO 9001:2015 Certified & NABL Accredited
Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil,
Bitumen, Non Destructive Testing Services, Project
Management Consultants, Third Party Quality Assurance, DPR.

Job No.:

CQCE/BBMP/DCJ/12/2022-2023

Date 30.03.2023

TEST REPORT FOR PRECAST HEAVY DUTY COBBLE STONE FOR PAVING

Client : Assistant Executive Engineer, Project Division Dasarahalli Zone, BBMP, Bangalore.
Agency : Sri D G Jagadeesh, Contractor, Bangalore.
Name of the work : Modified Estimate for Development of Parks in Paschim County and L M Enclave in Dasarahalli Zone, BBMP, Bangalore
Sample Size : 60mm thick
Reference to BIS codes: IS : 15658:2006 Precast Concrete Blocks for Paving- Specification
Date of test: 29.03.2023 to 30.03.2023

Compressive Strength:

Sl.No.	Grade designation of Paver blocks	Date of casting	Correction factor	Failure Load Kn	Area mm ²	Compressive strength (N/mm ²)	Apparent Compressive strength (N/mm ²)	Compressive Strength (Kg/Sq m)
1	281 Kg/Sqm	-	1.08	689.6	25000	27.6	29.8	297.9
2			1.08	712.3	25000	28.5	30.8	307.7
3			1.08	705.8	25000	28.2	30.5	304.9
4			1.08	721.5	25000	28.9	31.2	311.7
5			1.08	709.6	25000	28.4	30.7	306.5
6			1.08	721.5	25000	28.9	31.2	311.7

Remarks:

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Authorised Signatory.

[Signature]
Asst. Executive Engineer
Project Division, Dasarahalli Zone
BBMP, Bangalore



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Job No.: CQCE/BBMP/DGJ/12/2022-2023

Date 03.04.2023

TEST REPORT ON PRE-POLISHED DESIGNER CEMENT CONCRETE TILES

Client :: Assistant Executive Engineer, Project Division Dasarahalli Zone, BBMP,
Bangalore.

Contractor :: Sri D G Jagadeesh, Contractor, Bangalore.

Name of the Work :: Modified Estimate for Development of Parks in Paschim County and L M Enclave in
Dasarahalli Zone, BBMP, Bangalore

Sample ID :: Pre-Polished Designer Cement Concrete Tiles, 25mm thickness

Technical Reference :: IS: 1237-1980 (Reaffirmed 2006)

No. of Samples Tested :: 6 (Six)

Date of Testing :: 31.03.2023 to 03.04.2023

I.

Sl. No.	Wet Transverse Strength (N/mm ²)	Average (N/mm ²)	Requirement as per IS: 1237-2012
1	5.6	5.28	The average wet transverse strength should not be less than 3.0 N/mm ² when 6 full size tiles are tested.
2	5.2		
3	4.8		
4	5.3		
5	5.4		
6	5.4		

II.

Sl. No.	Water Absorption (% by Wt)	Average (% by Wt)	Requirement as per IS: 1237-2012
1	2.3	2.97	The average percentage of water absorption should not exceed 10% when 6 full size tiles are tested.
2	3.4		
3	3.1		
4	2.9		
5	2.8		
6	3.3		

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Job No.: CQCE/BBMP/DGJ/12/2022-2023

Date 19.04.2023

GRADATION FOR WMM

Client : Assistant Executive Engineer, Project Division Dasarahalli Zone,
BBMP, Bangalore.

Agency : Sri D G Jagadeesh, Contractor, Bangalore.

Name of Work : Modified Estimate for Development of Parks in Paschim County and L
M Enclave in Dasarahalli Zone, BBMP, Bangalore

IS Code: :IS 2386 (Part 1):1963(RA 2011)

Date of Testing 19.04.2023

Material Type : Wet Mix Macadam

Oven Dry.Wt, gram

10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	215	215	2.2	97.9	95-100
22.4	2803	3018	30.2	69.8	60-80
11.2	2147	5165	51.7	48.4	40-60
4.75	1594	6759	67.6	32.4	25-40
2.36	1253	8012	80.1	19.9	15-30
0.600	607	8619	86.2	13.8	8-22
0.075	1124	9743	97.4	2.6	0-5

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

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Job No.: CQCE/BBMP/DGJ/12/2022-2023

Date: 03.05.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Project Division Dasarahalli Zone,
BBMP, Bangalore.

Agency : Sri D G Jagadeesh, Contractor, Bangalore.

Name of the work : Modified Estimate for Development of Parks in Paschim County and L M
Enclave in Dasarahalli Zone, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	05.04.2023	03.05.2023	8.191	502.8	22.35
2	05.04.2023	03.05.2023	8.175	516.6	22.96
3	05.04.2023	03.05.2023	8.126	530.4	23.57

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Job No.: CQCE/BBMP/DGJ/12/2022-2023

Date: 19.04.2023

Aggregate Impact Value

Client	: Assistant Executive Engineer, Project Division Dasarahalli Zone, BBMP, Bangalore.
Agency	: Sri D G Jagadeesh, Contractor, Bangalore.
Name of the Work	: Modified Estimate for Development of Parks in Paschim County and L M Enclave in Dasarahalli Zone, BBMP, Bangalore
IS Code	IS 2386 (Part 4):1963(RA 2011)
Type of Mix	Wet Mix macadam
Date of Testing	19.04.2023

Sl No.	Details	Test No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	384	386	22.60
2	Weight of aggregate passing 2.36 mm sieve after the test = W_2 g	88	86	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	296	300	
4	Aggregate Impact value = percent fines $100 * (W_2/W_1)\%$	22.92	22.28	

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30% (As per MORTH Specification table 400.12)

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Job No.: CQCE/BBMP/DGJ/12/2022-2023

Date: 01.05.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Project Division Dasarahalli Zone,
BBMP, Bangalore.

Agency : Sri D G Jagadeesh, Contractor, Bangalore.

Name of the work : Modified Estimate for Development of Parks in Paschim County and L M
Enclave in Dasarahalli Zone, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M10

Compressive Strength as on : 28th day

SLNo.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	03.04.2023	01.05.2023	8.110	270.8	12.04
2	03.04.2023	01.05.2023	8.139	289.8	12.88
3	03.04.2023	01.05.2023	8.154	296.4	13.17

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Job No.: CQCE/BBMP/DGJ/12/2022-2023

Date: 12.04.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Project Division Dasarahalli Zone,
BBMP, Bangalore.

Agency : Sri D G Jagadeesh, Contractor, Bangalore.

Name of the work : Modified Estimate for Development of Parks in Paschim County and L M
Enclave in Dasarahalli Zone, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	05.04.2023	12.04.2023	8.110	359.5	15.98
2	05.04.2023	12.04.2023	8.125	370.2	16.45
3	05.04.2023	12.04.2023	8.157	386.3	17.17

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Job No.: CQCE/BBMP/DGJ/12/2022-2023

Date: 10.04.2023

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : Assistant Executive Engineer, Project Division Dasarahalli Zone, BBMP, Bangalore.

Agency : Sri D G Jagadeesh, Contractor, Bangalore.

Name of the work : Modified Estimate for Development of Parks in Paschim County and L M Enclave in Dasarahalli Zone, BBMP, Bangalore

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₁₀

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	03.04.2023	10.04.2023	8.182	201.5	8.96
2	03.04.2023	10.04.2023	8.173	184.4	8.20
3	03.04.2023	10.04.2023	8.149	168.9	7.51

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Job No.:

CQCE/BBMP/DGJ/12/2022-2023

Date: 31.03.2023

TEST REPORT ON CEMENT

Client : Assistant Executive Engineer, Project Division Dasarahalli Zone, BBMP, Bangalore.
Agency : Sri D G Jagadeesh, Contractor, Bangalore.
Name of Work : Modified Estimate for Development of Parks in Paschim County and L M Enclave in Dasarahalli Zone, BBMP, Bangalore
Sample : Cement (Dalmia 53 grade OPC)
Sample Supplied by: AGENCY
Date of Manufacture: February - 2023
Date of Testing : 29.03.2023 to 31.03.2023

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	370 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.50%	-

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Job No.:

CQCE/BBMP/DGJ/12/2022-2023

Date 31.03.2023

TEST REPORT ON FINE AGGREGATES (SAND)

Client : Assistant Executive Engineer, Project Division Dasarahalli Zone, BBMP, Bangalore.

Agency : Sri D G Jagadeesh, Contractor, Bangalore.

Name of Work : Modified Estimate for Development of Parks in Paschim County and L
M Enclave in Dasarahalli Zone, BBMP, Bangalore

Date of Testing 31.03.2023

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand

Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	69	6.90	6.90	93.1	90-100
2.36	103	10.30	17.20	82.8	75-100
1.18	142	14.20	31.40	68.6	55-90
600 Micron	187	18.70	50.10	49.9	35-59
300 Micron	227	22.70	72.80	27.2	8-30
150 Micron	196	19.60	92.40	7.6	0-10

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Job No: CQCE/BBMP/DGJ/12/2022-2023

Date 31.03.2023

TEST REPORT ON FINE AGGREGATES (SAND) IS 1542-1992

Client : Assistant Executive Engineer, Project Division Dasarahalli Zone, BBMP, Bangalore..

Agency : Sri D G Jagadeesh, Contractor, Bangalore.

Name of Work : Modified Estimate for Development of Parks in Paschim County and L M Enclave in Dasarahalli Zone, BBMP, Bangalore

Date of Testing 31.03.2023

Material : Sand(Plastering) Total wt. of aggregates in grms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	23	2.30	2.30	97.7	95-100
2.36	24	2.40	4.70	95.3	95-100
1.18	39	3.90	8.60	91.4	90-100
600 Micron	78	7.80	16.40	83.6	80-100
300 Micron	214	21.40	37.80	62.2	20-65
150 Micron	529	52.90	90.70	9.3	0-15

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Job No.: CQCE/BBMP/DGJ/12/2022-2023

Date 31.03.2023

TEST REPORT ON FINE AGGREGATES (SAND) IS 2116-1980

Client : Assistant Executive Engineer, Project Division Dasarahalli Zone, BBMP, Bangalore..

Agency : Sri D G Jagadeesh, Contractor, Bangalore.

Name of Work : Modified Estimate for Development of Parks in Paschim County and L M Enclave in Dasarahalli Zone, BBMP, Bangalore

Date of Testing 31.03.2023

Material : Sand(Masonry)

Total wt. of aggregates in gms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	22	2.20	2.20	97.8	90-100
1.18	18	1.80	4.00	96.0	70-100
600 Micron	54	5.40	9.40	90.6	40-100
300 Micron	218	21.80	31.20	68.8	5-70
150 Micron	547	54.70	85.90	14.1	0-15

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